CLAIMS

What is claimed is:

1   1.   A method of using a computer for transferring data, comprising:

2   sending a request for data to a targeted computer system;

3   determining if the data is in a look-up list that references other computers having the

4   requested data;

5   sending the request to the other computers having the requested data;

6   encoding the data using an acknowledgement independent equalized data packet

7   encoding scheme;

8   sending the encoded data to a requesting user;

9   receiving the encoded data from sending computers;

10   decoding the received encoded data;

11   saving the decoded data in memory.

1   2.   The method of claim 1, wherein data transmission is accomplished over a

2   peer-to-peer network.

1   3.   The method of claim 1, wherein encoded packets are relayed.

1   4.   The method of claim 1, wherein the look-up list is populated with nodes based

2   on data transfer rates.

1   5.   The method of claim 1, wherein the look-up list is populated with nodes based

2   on data types stored within the nodes.

1   6.   The method of claim 1, wherein the look-up list is a mesh list.

1   7.   The method of claim 1, wherein the acknowledgement independent equalized

2   data packet encoding scheme is a FEC encoding.

1   8.   The method of claim 1, wherein the data that is to be encoded is segmented

2   before encoding.

1   9.   The method of claim 1, wherein the received encoded packets are decoded,

2   and then re-encoded for further transmission upon request.

1   10.   A method of using a computer for transferring data, comprising:

2   receiving a request for data from a user;

3   determining if the data is in a look-up list that references other

4   computers having the requested data;

5   sending the request to the other computers having the requested data;

6   encoding the data using an acknowledgement independent equalized data packet

7   encoding scheme;

8   sending the encoded data to a requesting user.

1   11.   The method of claim 10, wherein data transmission is accomplished over a

2   peer-to-peer network.

1   12.   The method of claim 10, wherein encoded packets are relayed.

1   13.   The method of claim 10, wherein the look-up list is populated with nodes

2   based on data transfer rates.

1   14.   The method of claim 10, wherein the look-up list is populated with nodes

2   based on data types stored within the nodes.

1   15.   The method of claim 10, wherein the look-up list is a mesh list.

1   16.   The method of claim 10, wherein the acknowledgement independent

2   equalized data packet encoding scheme is a FEC encoding.

1   17.   The method of claim 10, wherein the data that is to be encoded is segmented

2   before encoding.

1   18.   A method of using a computer for transferring data, comprising:

2   receiving a request for data from a user;

3   encoding the data using an acknowledgement independent equalized data packet

4   encoding scheme;

5   sending the encoded data to the user.

1   19.   The method of claim 18, wherein data transmission is accomplished over a

2   peer-to-peer network.

1   20.   The method of claim 18, wherein encoded packets are relayed.

1   21.   The method of claim 18, wherein the look-up list is populated with nodes

2   based on data transfer rates.

1   22.   The method of claim 18, wherein the look-up list is populated with nodes

2   based on data types stored within the nodes.

1   23.   The method of claim 18, wherein the look-up list is a mesh list.

1   24.   The method of claim 18, wherein the acknowledgement independent

2   equalized data packet encoding scheme is a FEC encoding.

1   25.   The method of claim 18, wherein the data that is to be encoded is segmented

2   before encoding.

1   26.   A method of using a computer for dynamically transferring data, comprising:

2   sending a request for data to a targeted computer capable of servicing the request;

3   receiving acknowledgement independent equalized data packets from sending

4   computers;

5   decoding the received encoded data;

6   saving the decoded data in memory.

1   27.   The method of claim 26, wherein data transmission is accomplished over a

2   peer-to-peer network.

1   28.   The method of claim 26, wherein encoded packets are relayed.

1   29.   The method of claim 26, wherein the look-up list is populated with nodes

2   based on data transfer rates.

1   30.   The method of claim 26, wherein the look-up list is populated with nodes

2   based on data types stored within the nodes.

1   31.   The method of claim 26, wherein the look-up list is a mesh list.

1   32.   The method of claim 26, wherein the acknowledgement independent

2   equalized data packet encoding scheme is a FEC encoding.

1   33.   The method of claim 26, wherein the data that is to be encoded is segmented

2   before encoding.

1   34.   The method of claim 26, wherein the received encoded packets are decoded,

2   and then re-encoded for further transmission upon request.

1   35.   A system for using a computer for transferring data, comprising:

2   means to send a request for data to a targeted computer system;

3   means to determine if the data is in a look-up list that references other computers

4   having the requested data;

5   means to send the request to the other computers having the requested data;

6   means to encode the data using an acknowledgement independent equalized data

7   packet encoding scheme;

8   means to send the encoded data to a requesting user;

9   means to receive the encoded data from sending computers;

10   means to decode the received encoded data;

11   means to save the decoded data in memory.

1   36.   The system of claim 35, wherein data transmission is accomplished over a

2   peer-to-peer network.

1   37.   The system of claim 35, wherein encoded packets are relayed.

1   38.   The system of claim 35, wherein the look-up list is populated with nodes

2   based on data transfer rates.

1   39.   The system of claim 35, wherein the look-up list is populated with nodes

2   based on data types stored within the nodes.

1   40.   The system of claim 35, wherein the look-up list is a mesh list.

1   41.   The system of claim 35, wherein the acknowledgement independent equalized

2   data packet encoding scheme is a FEC encoding.

1   42.   The system of claim 35, wherein the data that is to be encoded is segmented

2   before encoding.

1   43.   The system of claim 35, wherein the received encoded packets are decoded,

2   and then re-encoded for further transmission upon request.

1   44.   A system for using a computer for transferring data, comprising:

2   means to receive a request for data from a user;

3   means to determine if the data is in a look-up list that references other computers

4   having the requested data;

5   means to send the request to the other computers having the requested data;

6   means to encode the data using an acknowledgement independent equalized data

7   packet encoding scheme;

8   means to send the encoded data to a requesting user.

1   45.   The system of claim 44, wherein data transmission is accomplished over a

2   peer-to-peer network.

1   46.   The system of claim 44, wherein encoded packets are relayed.

1   47.   The system of claim 44, wherein the look-up list is populated with nodes

2   based on data transfer rates.

1   48.   The system of claim 44, wherein the look-up list is populated with nodes

2   based on data types stored within the nodes.

1   49.   The system of claim 44, wherein the look-up list is a mesh list.

1   50.   The system of claim 44, wherein the acknowledgement independent equalized

2   data packet encoding scheme is a FEC encoding.

1   51.   The system of claim 44, wherein the data that is to be encoded is segmented

2   before encoding.

1   52.   A system for using a computer for transferring data, comprising:

2   means to receive a request for data from a user;

3   means to encode the data using an acknowledgement independent equalized data

4   packet encoding scheme;

5   means to send the encoded data to the user.

1   53.   The system of claim 52, wherein data transmission is accomplished over a

2   peer-to-peer network.

1   54.   The system of claim 52, wherein encoded packets are relayed.

1   55.   The system of claim 52, wherein the look-up list is populated with nodes

2   based on data transfer rates.

1   56.   The system of claim 52, wherein the look-up list is populated with nodes

2   based on data types stored within the nodes.

1   57.   The system of claim 52, wherein the look-up list is a mesh list.

1   58.   The system of claim 52, wherein the acknowledgement independent equalized

2   data packet encoding scheme is a FEC encoding.

1   59.   The system of claim 52, wherein the data that is to be encoded is segmented

2   before encoding.

1   60.   A system for using a computer for dynamically transferring data, comprising:

2   means to send a request for data to a targeted computer capable of servicing the

3   request;

4   means to receive acknowledgement independent equalized data packets from sending

5   computers;

6   means to decode the received encoded data;

7   means to save the decoded data in memory.

1   61.   The system of claim 60, wherein data transmission is accomplished over a

2   peer-to-peer network.

1   62.   The system of claim 60, wherein encoded packets are relayed.

1   63.   The system of claim 60, wherein the look-up list is populated with nodes

2   based on data transfer rates.

1   64.   The system of claim 60, wherein the look-up list is populated with nodes

2   based on data types stored within the nodes.

1   65.   The system of claim 60, wherein the look-up list is a mesh list.

1   66.   The system of claim 60, wherein the acknowledgement independent equalized

2   data packet encoding scheme is a FEC encoding.

1   67.   The system of claim 60, wherein the data that is to be encoded is segmented

2   before encoding.

1   68.   The system of claim 60, wherein the received encoded packets are decoded,

2   and then re-encoded for further transmission upon request.

1   69.   A program stored on a medium readable by a processor, the program,

2   comprising:

3   a module to send a request for data to a targeted computer system;

4   a module to determine if the data is in a look-up list that references other computers

5   having the requested data;

6   a module to send the request to the other computers having the requested data;

7   a module to encode the data using an acknowledgement independent equalized data

8   packet encoding scheme;

9   a module to send the encoded data to a requesting user;

10   a module to receive the encoded data from sending computers;

11   a module to decode the received encoded data;

12   a module to save the decoded data in memory.

1   70.   The medium of claim 69, wherein data transmission is accomplished over a

2   peer-to-peer network.

1   71.   The medium of claim 69, wherein encoded packets are relayed.

1   72.   The medium of claim 69, wherein the look-up list is populated with nodes

2   based on data transfer rates.

1   73.   The medium of claim 69, wherein the look-up list is populated with nodes

2   based on data types stored within the nodes.

1   74.   The medium of claim 69, wherein the look-up list is a mesh list.

1   75.   The medium of claim 69, wherein the acknowledgement independent

2   equalized data packet encoding scheme is a FEC encoding.

1   76.   The medium of claim 69, wherein the data that is to be encoded is segmented

2   before encoding.

1   77.   The medium of claim 69, wherein the received encoded packets are decoded,

2   and then re-encoded for further transmission upon request.

1   78.   A program stored on a medium readable by a processor, the program,

2   comprising:

3   a module to receive a request for data from a user;

4   a module to determine if the data is in a look-up list that references other computers

5   having the requested data;

6   a module to send the request to the other computers having the requested data;

7   a module to encode the data using an acknowledgement independent equalized data

8   packet encoding scheme;

9   a module to send the encoded data to a requesting user.

1   79.   The medium of claim 78, wherein data transmission is accomplished over a

2   peer-to-peer network.

1   80.   The medium of claim 78, wherein encoded packets are relayed.

1   81.   The medium of claim 78, wherein the look-up list is populated with nodes

2   based on data transfer rates.

1   82.   The medium of claim 78, wherein the look-up list is populated with nodes

2   based on data types stored within the nodes.

1   83.   The medium of claim 78, wherein the look-up list is a mesh list.

1   84.   The medium of claim 78, wherein the acknowledgement independent

2   equalized data packet encoding scheme is a FEC encoding.

1   85.   The medium of claim 78, wherein the data that is to be encoded is segmented

2   before encoding.

1   86.   A program stored on a medium readable by a processor, the program,

2   comprising:

3   a module to receive a request for data from a user;

4   a module to encode the data using an acknowledgement independent equalized data

5   packet encoding scheme;

6   a module to send the encoded data to the user.

1   87.   The medium of claim 86, wherein data transmission is accomplished over a

2   peer-to-peer network.

1   88.   The medium of claim 86, wherein encoded packets are relayed.

1   89.   The medium of claim 86, wherein the look-up list is populated with nodes

2   based on data transfer rates.

1   90.   The medium of claim 86, wherein the look-up list is populated with nodes

2   based on data types stored within the nodes.

1   91.   The medium of claim 86, wherein the look-up list is a mesh list.

1   92.   The medium of claim 86, wherein the acknowledgement independent

2   equalized data packet encoding scheme is a FEC encoding.

1   93.   The medium of claim 86, wherein the data that is to be encoded is segmented

2   before encoding.

1   94.   A program stored on a medium readable by a processor, the program,

2   comprising:

3   a module to send a request for data to a targeted computer capable of servicing the

4   request;

5   a module to receive acknowledgement independent equalized data packets from

6   sending computers;

7   a module to decode the received encoded data;

8   a module to save the decoded data in memory.

1   95.   The module of claim 94, wherein data transmission is accomplished over a

2   peer-to-peer network.

1   96.   The module of claim 94, wherein encoded packets are relayed.

1   97.   The module of claim 94, wherein the look-up list is populated with nodes

2   based on data transfer rates.

1   98.   The module of claim 94, wherein the look-up list is populated with nodes

2   based on data types stored within the nodes.

1   99.   The module of claim 94, wherein the look-up list is a mesh list.

1   100.   The module of claim 94, wherein the acknowledgement independent

2   equalized data packet encoding scheme is a FEC encoding.

1   101.   The module of claim 94, wherein the data that is to be encoded is segmented

2   before encoding.

1   102.   The module of claim 94, wherein the received encoded packets are decoded,

2   and then re-encoded for further transmission upon request.

3

4

1   103.   A network transmission apparatus, comprising:

2   a processor;

3   a memory, communicatively connected to the processor;

4   a program, stored in the memory, including,

5   a module to send a request for data to a targeted computer system;

6   a module to determine if the data is in a look-up list that references other

7   computers having the requested data;

8   a module to send the request to the other computers having the requested data;

9   a module to encode the data using an acknowledgement independent

10   equalized data packet encoding scheme;

11   a module to send the encoded data to a requesting user;

12   a module to receive the encoded data from sending computers;

13   a module to decode the received encoded data;

14   a module to save the decoded data in memory.

1   104.   The apparatus of claim 103, wherein data transmission is accomplished over a

2   peer-to-peer network.

1   105.   The apparatus of claim 103, wherein encoded packets are relayed.

1   106.   The apparatus of claim 103, wherein the look-up list is populated with nodes

2   based on data transfer rates.

1   107.   The apparatus of claim 103, wherein the look-up list is populated with nodes

2   based on data types stored within the nodes.

1   108.   The apparatus of claim 103, wherein the look-up list is a mesh list.

1   109.   The apparatus of claim 103, wherein the acknowledgement independent

2   equalized data packet encoding scheme is a FEC encoding.

1   110.   The apparatus of claim 103, wherein the data that is to be encoded is

2   segmented before encoding.

1   111.   The apparatus of claim 103, wherein the received encoded packets are

2   decoded, and then re-encoded for further transmission upon request.

1   112.   A network transmission apparatus, comprising:

2   a processor;

3   a memory, communicatively connected to the processor;

4   a program, stored in the memory, including,

5   a module to receive a request for data from a user;

6   a module to determine if the data is in a look-up list that references other

7   computers having the requested data;

8   a module to send the request to the other computers having the requested data;

9   a module to encode the data using an acknowledgement independent

10   equalized data packet encoding scheme;

11   a module to send the encoded data to a requesting user.

1   113.   The apparatus of claim 112, wherein data transmission is accomplished over a

2   peer-to-peer network.

1   114.   The apparatus of claim 112, wherein encoded packets are relayed.

1   115.   The apparatus of claim 112, wherein the look-up list is populated with nodes

2   based on data transfer rates.

1   116.   The apparatus of claim 112, wherein the look-up list is populated with nodes

2   based on data types stored within the nodes.

1   117.   The apparatus of claim 112, wherein the look-up list is a mesh list.

1   118.   The apparatus of claim 112, wherein the acknowledgement independent

2   equalized data packet encoding scheme is a FEC encoding.

1   119.   The apparatus of claim 112, wherein the data that is to be encoded is

2   segmented before encoding.

1   120.   A network transmission apparatus, comprising:

2   a processor;

3   a memory, communicatively connected to the processor;

4   a program, stored in the memory, including,

5   a module to receive a request for data from a user;

6   a module to encode the data using an acknowledgement independent

7   equalized data packet encoding scheme;

8   a module to send the encoded data to the user.

1   121.   The apparatus of claim 120, wherein data transmission is accomplished over a

2   peer-to-peer network.

1   122.   The apparatus of claim 120, wherein encoded packets are relayed.

1   123.   The apparatus of claim 120, wherein the look-up list is populated with nodes

2   based on data transfer rates.

1   124.   The apparatus of claim 120, wherein the look-up list is populated with nodes

2   based on data types stored within the nodes.

1   125.   The apparatus of claim 120, wherein the look-up list is a mesh list.

1   126.   The apparatus of claim 120, wherein the acknowledgement independent

2   equalized data packet encoding scheme is a FEC encoding.

1   127.   The apparatus of claim 120, wherein the data that is to be encoded is

2   segmented before encoding.

1   128.   A network transmission apparatus, comprising:

2   a processor;

3   a memory, communicatively connected to the processor;

4   a program, stored in the memory, including,

5   a module to send a request for data to a targeted computer capable of servicing

6   the request;

7   a module to receive acknowledgement independent equalized data packets

8   from sending computers;

9   a module to decode the received encoded data;

10   a module to save the decoded data in memory.

1   129.   The apparatus of claim 128, wherein data transmission is accomplished over a

2   peer-to-peer network.

1   130.   The apparatus of claim 128, wherein encoded packets are relayed.

1   131.   The apparatus of claim 128, wherein the look-up list is populated with nodes

2   based on data transfer rates.

1   132.   The apparatus of claim 128, wherein the look-up list is populated with nodes

2   based on data types stored within the nodes.

1   133.   The apparatus of claim 128, wherein the look-up list is a mesh list.

1   134.   The apparatus of claim 128, wherein the acknowledgement independent

2   equalized data packet encoding scheme is a FEC encoding.

1   135.   The apparatus of claim 128, wherein the data that is to be encoded is

2   segmented before encoding.

1   136.   The apparatus of claim 128, wherein the received encoded packets are

2   decoded, and then re-encoded for further transmission upon request.